

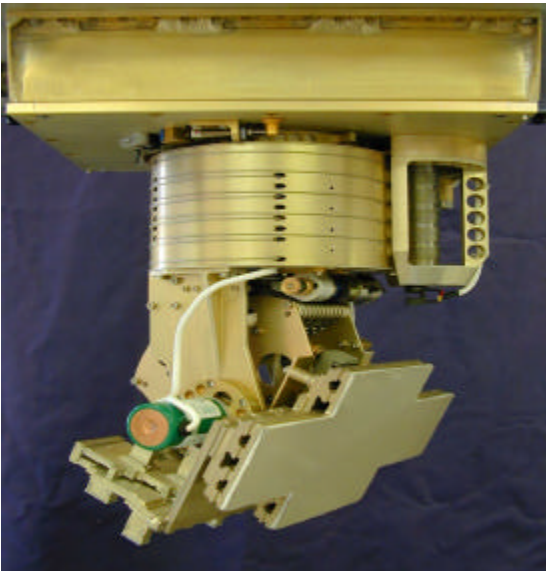
Model 2 Servo Airborne (UAV) Gimbal



Date Revised: 25 NOV 03

VENDOR DESCRIPTION

Designed for SAR/MTI on the Hunter TUAV, the Model 2 Servo Airborne (UAV) Gimbal may be modified to accommodate a wide range of sensors consistent with physical size and limited to 2 pounds, nominal. Payload weight may be greater, but performance will be reduced. Payload power and control cabling may be wired through the hollow drives with an option for rotary joints on each axis. Designed to operate inside a radome, the gimbal may be mounted inside the airframe to a point where only the elevation axis protrudes. Encoders on each axis and tachometers on each motor allow automatic vectoring commands or individual speed and direction control of each axis. In-theater operations have accumulated operation times of over 2000 hours. Gimbal control electronics contained in base mount housing.



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Business Category: Small Business

Misc

Hardware

Power: 52 watts peak, 20 watts nominal

Positional Resolution: 0.05°

Weight: 8.3 lbs

Power: 28 VDC

Dimensions: 267mm (H) x 224mm (W) x 196mm (D)

Max Data Rate: 115,000 baud

Payload Capacity: 2 lbs nominal, 5 lbs max. balanced

Operating Temp.: -40°C to 55°C

Payload Max. Inertia: 7.8 lb-in (pan), 4.9 lb-in (tilt)

Interface: RS-232 or RS-422

Az/EI Range: 400° / +15° to -70°

MTBF: >1200 hrs. demonstrated

Travel Rate: 30°/sec (Az), 20°/sec (EI)

MTTR: 8 hrs avg.

Options

Kevlin 21232 rotary joints on each axis